

**ABSTRACT OF THE DISCLOSURE****METHOD AND APPARATUS TO AUTONOMICALLY COUNT INSTRUCTION  
EXECUTION FOR APPLICATIONS**

A method, apparatus, and computer instructions in a data processing system for monitoring the execution of a compiled program having a set of groupings such as pages, modules, or subroutines. A grouping from the set of groupings for the compiled program is selected to form a selected grouping. A set of indicators is associated with instructions in the selected grouping within the set of groupings. The set of indicators provide data on the execution of the instructions by a processor. The compiled program is executed. The data is generated upon encountering an indicator in the set of indicators, and the data is collected.